

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A device for navigating an instrument (4) in a body volume that is subject to a spontaneous movement that can be described by a movement parameter (E), comprising:

- a) a locating device (2) for ~~determining the~~ measuring a location (r) of the instrument (4);
- b) a sensor device (5) for ~~determining~~ measuring the movement parameter (E); and
- c) a data processing device (40) coupled to the locating device (2) and the sensor device, wherein the data processing device comprises (5) and comprising a movement model (44) that describes the spontaneous movement of the body volume as a function of the movement parameter (E), wherein with (i) the aid of the movement model, (ii) a current measured location (r) and (iii) an associated current movement parameter, the data processing device (40) ~~is designed to correlate~~ calculates an estimated movement-compensated location ($r + \Delta$), corresponding to the current measured location (r) plus a vectorial displacement (Δ), of the instrument that the instrument would have in a reference phase (E_0) of the spontaneous movement ~~with measured values of the location (r) of the instrument (4) and of the associated movement parameter (E) with the aid of the movement model (44).~~

2. (currently amended) [[A]] The device as claimed in claim 1, ~~characterized in that~~ wherein the data processing device (40) is designed to reconstruct the movement model (44) from measured values for the location of the interpolation nodes and ~~for the~~ associated movement parameters (E).

3. (currently amended) [[A]] ~~The~~ device as claimed in claim 2, ~~characterized in that~~ further wherein the data processing device (40) is designed to supplement the measured movement of the interpolation nodes in the movement model (44) by interpolation.

4. (currently amended) [[A]] ~~The~~ device as claimed in claim 2, ~~characterized in that~~ further wherein the data processing device is designed to determine, ~~in particular from X-ray, CT or MRI recordings,~~ measured values for the location of interpolation nodes from a series of three-dimensional images of the body volume, wherein the series of three-dimensional images are obtained from at least one of X-ray, CT and MRI recordings.

5. (currently amended) [[A]] ~~The~~ device as claimed in claim 2, ~~characterized in that~~ wherein the measured values for the location of the interpolation nodes of the body volume correspond to locations (r), measured with the locating device (2), of the instrument (4).

6. (currently amended) [[A]] ~~The~~ device as claimed in claim 5, ~~characterized in that~~ wherein the measured locations (r) of the instrument (4) ~~have been~~ are obtained without moving the instrument (4) relative to the body volume.

7. (currently amended) [[A]] ~~The~~ device as claimed in claim 1, ~~characterized in that~~ further wherein the data processing device (40) comprises a memory containing a static image (42) of the body volume and is designed to determine the estimated movement-compensated location ($r + \Delta$), ~~estimated~~ for the reference phase (E_0), of the instrument (4) in the static image.

8. (currently amended) ~~[[A]]~~ The device as claimed in claim 1, characterized in that wherein the sensor device comprises an ECG apparatus ~~(5)~~ and/or an apparatus for determining the respiration phase.

9. (currently amended) ~~[[A]]~~ The device as claimed in claim 1, characterized in that wherein the locating device ~~(2)~~ is designed to determine the location of the instrument ~~(4)~~ with the aid of magnetic fields and/or with the aid of optical methods.

10. (currently amended) A method of navigating an instrument ~~(4)~~ in a body volume that is subject to a spontaneous movement that can be described by a movement parameter ~~(E)~~, the method comprising the following steps:

- a) ~~measurement of the~~ measuring a location of interpolation nodes of the body volume and ~~of the~~ associated movement parameters (E) in different phases of the spontaneous movement;
- b) ~~reconstruction of~~ reconstructing a movement model ~~(11)~~ for the body volume from said measured values of the location of interpolation nodes and associated movement parameters;
- c) ~~measurement of the~~ measuring a location (r) of the instrument ~~(4)~~ and ~~of the~~ an associated movement parameter (E); and
- d) ~~calculation of the~~ calculating, with the aid of the movement model, a current measured location and an associated current movement parameter, an estimated movement-compensated position ($r + \Delta$), corresponding to the current measured location (r) plus a vectorial displacement (Δ), of the instrument ~~(4)~~ in a reference phase (E_0) of the spontaneous movement ~~with the aid of the movement model (11).~~